Forestland Interpretations

Forestland interpretations are important to good management. The management of trees begins with an understanding of the soil where they grow or are to be grown. Some soils are very suitable for growing wood crops; others barely support tree cover. Different tree species may vary in production on the same soil.

Forestland interpretations should be used to assist land users in planning, installing, and maintaining forestland management systems.

Forest Management and Productivity

The Forestland Management and Productivity tables presents information about suitable for producing timber for each soil map unit. Management concerns, which include hazard of erosion, equipment use, seedling mortality, and windthrow hazard, are listed by ratings of SLIGHT, MODERATE, or SEVERE. Information on potential productivity includes plant competition, common trees, site index, productivity class, and trees to plant.

Management Concerns

EROSION HAZARD - the risk of erosion is slight if the expected soil loss is small; moderate if some measures are needed to control erosion during logging; and severe if intensive management or special equipment and methods are needed to prevent excessive loss of soil.

EQUIPMENT LIMITATION - A rating of slight indicates that use of equipment is not limited to a particular kind of equipment or time of year; moderate indicates a short seasonal limitation, or a need for some modification in management of equipment; and severe indicates a seasonal limitation, a need for special equipment or management, or a hazard in the use of equipment.

SEEDLING MORTALITY - The ratings are for seedlings from a good planting stock that are properly planted during a period of sufficient rainfall. A rating of slight indicates that the expected mortality of the planted seedlings is less than 25 percent; moderate - 25 to 50 percent; and severe - more than 50 percent.

WINDTHROW HAZARD - A rating of slight indicates that trees in wooded areas are not expected to be blown down by commonly occurring winds; moderate - that some trees are blown down during periods of excessive soil wetness and strong winds; and severe that many trees are blown down during periods of excessive soil wetness and moderate or strong winds.

PLANT COMPETITION - A rating of slight indicates little or no competition from other plants; moderate indicates that plant competition is expected to hinder the development of the fully stocked stand of desirable trees; and severe means that plant

competition is expected to prevent the establishment of a desirable stand unless the site is intensively prepared, weeded, or otherwise managed for the control of undesirable plants.

POTENTIAL PRODUCTIVITY - This is discussed under the ordination class symbol.

COMMON TREES - Trees that generally occur on the soil are listed regardless of economic importance.

SITE INDEX AND PRODUCTIVITY CLASS - These are discussed under ordination class symbol.

TREES TO PLANT - Trees that are suitable for commercial wood production and that are adapted to the soil.

See the National Forestry Manual, Subpart B for criteria used in rating management concerns.

This subsection includes:

• (a) Forest Management (one or two tables)

	Potential produ	uctivi	ty	
Map symbol and soil name	Common trees	 Site index 	Volume of wood	Trees to manage
11C:			cu ft/ac	
Peridge	black walnut eastern redcedar northern red oak shortleaf pine white oak	 50 70 70 	0 57 57 114 0	black walnut, northern red oak, shortleaf pine, white oak
11D: Peridge	 black walnut eastern redcedar northern red oak shortleaf pine white oak	 50 70 70	0 57 57 114 0	 black walnut, northern red oak, shortleaf pine, white oak
11E: Peridge	 black walnut eastern redcedar northern red oak shortleaf pine white oak	 50 70 70	0 57 57 114 0	 black walnut, northern red oak, shortleaf pine, white oak
12A: Elsah, FREQUENTLY FLOODED	 American sycamore eastern cottonwood red maple sweetgum	 95 76	 0 114 0 72	 black walnut, green ash, sweetgum, tuliptree

	Potential produ	uctivi	ΞΥ	
Map symbol and soil name	Common trees	1	 Volume of wood fiber	 Trees to manage
13: Haymond, FREQUENTLY FLOODED	 tuliptree	100	cu ft/ac	 black cherry, bur oak, green ash, pin oak, red maple, swamp white
14E: Holstein	 black oak northern red oak white oak	75 75 75 65	57 57 43	oak, sweetgum black cherry, black oak, black walnut, green ash, northern red oak, shortleaf pine, tuliptree, white oak
15B: Iva	 pin oak sweetgum tuliptree white oak	 85 80 85 75	 72 86 86 57	American sycamore, baldcypress, eastern white pine, red maple, tuliptree, white ash
16B: Menfro	 black oak northern red oak sugar maple white ash white oak	 73 81 68 70 59	57 57 43 43 43 43	 black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak

	Potential produ	uctivi	ty	
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	Trees to manage
16C:		 	cu ft/ac	
Menfro	black oak northern red oak sugar maple white ash white oak	73 81 68 70 59	57 57 43 43 43 43	black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak
16D: Menfro	 black oak northern red oak sugar maple white ash white oak	73 81 68 70 59	57 57 43 43 43 43	 black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak
16E: Menfro	 black oak northern red oak sugar maple white ash white oak	73 81 68 70 59	57 57 43 43 43 43	 black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak

	Potential produ	uctivi	ty	
Map symbol and soil name	Common trees	 Site index 	Volume of wood	Trees to manage
			cu ft/ac	
17F:		 	 	
Menfro	black oak northern red oak sugar maple white ash white oak	73 81 68 70 59	57 57 43 43 43 43	black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak
Clarksville	black oak northern red oak shortleaf pine white oak	61 61 61 58	43 43 86 43	shortleaf pine, sweetgum, tuliptree, white oak
18D:		 	 	
Menfro	black oak northern red oak sugar maple white ash white oak	73 81 68 70 59	57 57 43 43 43 43	black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white
Bucklick	black oak northern red oak post oak sugar maple white oak	j	0 0 0 0 0 0 43	 eastern white pine, green ash, tuliptree, white oak

	Potential produ	activi	ΞY	
Map symbol and soil name	Common trees	1	 Volume of wood fiber	 Trees to manage
107			cu ft/ac	
18E: Menfro	 black oak northern red oak sugar maple white ash white oak	 73 81 68 70 59	57 57 43 43 43 43	 black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak
Bucklick	black oak northern red oak post oak sugar maple white oak	 61	0 0 0 0 0 43	eastern white pine, green ash, tuliptree, white oak
19D: Menfro	 black oak northern red oak sugar maple white ash white oak	73 81 68 70 59	57 57 43 43 43 43	black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak
Holstein	 black oak northern red oak white oak	 75 75 65 	57 57 43 	 black cherry, black oak, black walnut, green ash, northern red oak, shortleaf pine, tuliptree, white oak

	Potential produ	uctivi	БУ	
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	Trees to manage
		 	cu ft/ac	
19E: Menfro	 black oak northern red oak sugar maple white ash white oak	 73 81 68 70 59	57 57 43 43 43 43	black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak
Holstein	black oak northern red oak white oak	75 75 65	57 57 43	black cherry, black oak, black walnut, green ash, northern red oak, shortleaf pine, tuliptree, white oak
20E: Poynor		 	 	
21D: Menfro	 black oak northern red oak sugar maple white ash white oak	 73 81 68 70 59	57 57 43 43 43 43	 black walnut, eastern white pine, green ash, shortleaf pine, sugar maple, tuliptree, white oak

	Potential productivity			
Map symbol and soil name	Common trees		 Volume of wood fiber	 Trees to manage
			 cu ft/ac 	
21D: (cont) Bucklick	black oak northern red oak post oak sugar maple white oak	 	0 0 0 0	eastern white pine, green ash, tuliptree, white oak
22: Wilbur, FREQUENTLY	WIII	01	4 3 	
FLOODED	tuliptree	100	114	black cherry, bur oak, green ash, pin oak, red maple, swamp white oak, sweetgum
23: Wakeland, FREQUENTLY	 	 	 	
FLOODED	pin oak sweetgum tuliptree Virginia pine	90 88 90 85	72 100 86 129	American sycamore, baldcypress, eastern white pine, red maple, white ash
31: Adler, RARELY FLOODED	American sycamore eastern cottonwood green ash sweetgum water oak willow oak	 115 120 95 100 100 100	 186 186 57 143 100 100	American sycamore, eastern cottonwood, green ash, sweetgum

Trees to manage
merican sycamore,
eastern
cottonwood, green
ash, Nuttall oak,
sweetgum, water
oak, willow oak
herrybark oak,
eastern
cottonwood,
loblolly pine,
shortleaf pine
merican sycamore,
eastern
cottonwood, green
ash, loblolly pine, sweetgum
а

	Potential produ	uctivi	ΞΥ	
Map symbol and soil name	Common trees	1	 Volume of wood fiber	Trees to manage
36:			cu ft/ac	
Bosket	cherrybark oak eastern cottonwood green ash	90 100 80	114 129 57	cherrybark oak, eastern cottonwood,
	sweetgum water oak willow oak	90 90 90	100 86 86	shortleaf pine, sweetgum
37A: Bowdre, RARELY FLOODED	 cherrybark oak eastern cottonwood sweetgum water oak	 90 110 95 95	 114 157 114 86	 American sycamore, eastern cottonwood, sweetgum
38A: Broseley	 eastern cottonwood pin oak	 80 70	 86 57	 eastern cottonwood, pin oak
39: Cairo, FREQUENTLY				
FLOODED	baldcypress eastern cottonwood green ash pin oak swamp white oak	 90 	0 0 0 72 0	baldcypress, eastern cottonwood, pin oak, red maple, water tupelo

	Potential produ	uctivi	ty	
Map symbol and soil name	Common trees	 Site index 	Volume	 Trees to manage
			cu ft/ac	
40:			İ	
Clana	black oak eastern cottonwood pin oak shortleaf pine sweetgum	70 86 80 	57 86 57 0 0	American sycamore, eastern cottonwood, eastern white pine, loblolly pine, pecan, pin oak, shortleaf pine, sweetgum
41A: Caruthersville, RARELY FLOODED	 	!	 0 0	 American sycamore, eastern cottonwood, pin oak, silver maple
42: Commerce, RARELY FLOODED	American sycamore eastern cottonwood green ash Nuttall oak pecan water oak willow oak	120 100 90	0 186 100 0 0 114	cherrybark oak, pecan, Shumard's oak, water oak
43: Cooter, OCCASIONALLY FLOODED	 baldcypress eastern cottonwood pin oak	 95 80	0 114 57	 baldcypress, eastern cottonwood, pin oak

	Potential produ	uctivi	ty	
Map symbol and soil name	Common trees		 Volume of wood fiber	 Trees to manage
44: Crevasse, FREQUENTLY FLOODED	 eastern cottonwood loblolly pine sweetgum	 100 90	cu ft/ac	eastern cottonwood,
45:	white oak 	90 90 	72	
Diehlstadt, OCCASIONALLY FLOODED	common hackberry eastern cottonwood green ash southern red oak sweetgum	 	0 0 0 72 0	American sycamore, eastern cottonwood, green ash, loblolly pine, sweetgum
46: Dubbs	cherrybark oak cherrybark oak eastern cottonwood green ash Nuttall oak Shumard's oak sweetgum water oak willow oak	80 95	143 129 57 0 72 114 86 86	American sycamore, eastern cottonwood, green ash, Nuttall oak, sweetgum, tuliptree
47: Dundee	cherrybark oak eastern cottonwood sweetgum water oak	 105 100 100 95	 172 129 143 86	cherrybark oak, eastern cottonwood, sweetgum, tuliptree, water

	Potential produ	uctivi	ty	
Map symbol and soil name	Common trees		 Volume of wood fiber	Trees to manage
			cu ft/ac	
48: Farrenburg, RARELY		 	 	
FLOODED	baldcypress		0	American sycamore,
	eastern cottonwood		0	eastern
	pin oak	86	72	cottonwood, pin
	sweetgum		0	oak I
49:			 	
Jackport	cherrybark oak	90	114	cherrybark oak,
	green ash	80	43	eastern
	sweetgum	90	100	cottonwood,
	water oak	90	86	Nuttall oak,
	willow oak	90	86	willow oak
50:		 	 	
Lilbourn, RARELY FLOODED	 baldcypress	i	i o	baldcypress,
·	eastern cottonwood	90	i o	eastern
	pin oak	80 	57 	cottonwood, green ash, pin oak
51A: Malden	 shortleaf pine 	 70 	 114 	 black oak, loblolly pine, shortleaf pine
52B: Memphis	 cherrybark oak loblolly pine sweetgum	 90 90 90	 114 129 100	 cherrybark oak, loblolly pine, tuliptree

	Potential productivity			
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	 Trees to manage
52C:			cu ft/ac	
Memphis	cherrybark oak loblolly pine sweetgum	90 90 90	114 129 100	cherrybark oak, loblolly pine, tuliptree
52D3: Memphis, SEVERELY ERODED	cherrybark oak loblolly pine sweetgum	 90 90 90	 114 129 100	 cherrybark oak, loblolly pine, tuliptree
52E3: Memphis, SEVERELY ERODED	cherrybark oak loblolly pine sweetgum	 90 90 90	 114 129 100	 cherrybark oak
53: Mhoon, RARELY FLOODED	American sycamore eastern cottonwood green ash honeylocust Nuttall oak swamp chestnut oak sweetgum water oak	100 110 90 	143 157 57 0 0 0 0 0	green ash, Nuttall oak, water oak
54: Reelfoot, RARELY FLOODED	cherrybark oak eastern cottonwood green ash sweetgum water oak	 100 105 85 100 90	143 143 57 143 86	cherrybark oak, eastern cottonwood, green ash, sweetgum, water oak

	Potential productivity			
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	Trees to manage
55: Roellen, OCCASIONALLY		 	cu ft/ac	
FLOODED	cherrybark oak eastern cottonwood sweetgum water oak	90 100 90 90	114 129 100 86	eastern cottonwood, sweetgum
56E: Saffell	 loblolly pine shortleaf pine white oak	 68 60 	 86 86 0	 loblolly pine, shortleaf pine
57B: Scotco	 black oak post oak southern red oak 	i	0 0 43	 black oak, loblolly pine, shortleaf pine, southern red oak
57C: Scotco	 black oak post oak southern red oak 	i	0 0 43	 black oak, loblolly pine, shortleaf pine, southern red oak

	Potential productivity				
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	 Trees to manage 	
			cu ft/ac		
58:		 	 		
Sharkey, RARELY FLOODED-	cedar elm green ash honeylocust	 	0 0 0	green ash, Nuttall oak, water oak	
	Nuttall oak sugarberry	90	0 0 0		
	swamp chestnut oak sweetgum water oak willow oak	 90 90 100	100 86 100		
59:					
Sharkey, RARELY FLOODED-	cedar elm green ash honeylocust	 	0 0 0	green ash, Nuttall oak, water oak 	
	Nuttall oak sugarberry swamp chestnut oak	90 	0 0 0		
	sweetgum water oak willow oak	90 90 100	100 86 100		
60:		 	 		
Sharkey, RARELY FLOODED-	cedar elm green ash honeylocust Nuttall oak sugarberry swamp chestnut oak	 90 	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	green ash, Nuttall oak, water oak	
	sweetgum water oak willow oak	90 90 100	100 86 100		

	Potential productivity			
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	Trees to manage
			cu ft/ac	
60: (cont) Steele, RARELY FLOODED	 - eastern cottonwood pin oak 	 85 80	 86 57	 - eastern cottonwood, pin oak
61: Sikeston, FREQUENTLY FLOODED	 baldcypress eastern cottonwood pin oak sweetgum	 100 95 95	 0 129 72 114	American sycamore, eastern cottonwood, pin oak, sweetgum, water oak
62: Steele, RARELY FLOODED	eastern cottonwood pin oak	 85 80	 86 57	 eastern cottonwood, pin oak
63: Tiptonville	cherrybark oak eastern cottonwood green ash Nuttall oak sweetgum	90 100 90 90 90	114 129 57 86 100	cherrybark oak, eastern cottonwood, green ash, Shumard's oak, tuliptree

	Potential productivity			
Map symbol and soil name	Common trees	1	 Volume of wood fiber	 Trees to manage
			cu ft/ac	
64: Towosahgy	 eastern cottonwood sweetgum 	 85 80 	86 86 	American sycamore, eastern cottonwood, eastern white pine, loblolly pine, pecan, pin oak, Scotch pine, shortleaf pine, sweetgum
65: Tunica, RARELY FLOODED	 cherrybark oak eastern cottonwood green ash Nuttall oak sweetgum	90 105 100 105 90	114 143 57 0 100	American sycamore, cherrybark oak, eastern cottonwood, green ash, Nuttall oak, sweetgum
66: Wardell, RARELY FLOODED-	 eastern cottonwood pin oak	 90 80	 100 57	 eastern cottonwood, pecan, pin oak, sweetgum
67: Orthents		 	 	
Water	 	 	 	
68: Pits	 	 	 	

	Potential productivity			
Map symbol and soil name	Common trees	 Site index 	 Volume of wood fiber	Trees to manage
			cu ft/ac	
70:		 	 	
Falaya, OCCASIONALLY	İ	j	j	
FLOODED	cherrybark oak		157	cherrybark oak,
	eastern cottonwood		129	eastern
	green ash	90	129	cottonwood, green
	loblolly pine	90	129	ash, sweetgum,
	Nuttall oak	110	100	tuliptree
	water oak	100	100	
M-W:		 	 	
Water				
w:		 	 	
Water		ļ		